

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014608 A3

(51) International Patent Classification⁷: **C07H 15/04**

(21) International Application Number:
PCT/EP2004/007372

(22) International Filing Date: 6 July 2004 (06.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03254528.7 18 July 2003 (18.07.2003) EP

(71) Applicant (for all designated States except US):
CARGILL INCORPORATED [US/US]; 15407 McGinty
Road West, Wayzata, MN 55391 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STOUFFS, Robert**,
Henri-Marcel [BE/IT]; Via Montebello, 25, I-44100 Fer-
rara (IT). **BRUSSANI, Gianfranco** [IT/IT]; Via Gramsci
8, I-13058 Ponderano (IT). **SACRATO, Ricardo** [IT/IT];
Via Dei Marinai 12, I-45026 Lendinara (IT). **CONARD**,
Chad [US/US]; 5009 Co Road 39, Ft Calhoun, NE 68023
(US). **SASMAN, Thomas** [US/US]; 3922 N. 159th Street,
Omaha, NE 68116 (US).

(74) Agent: **DERKS, Wilbert**; Howrey Simon Arnold &
White, CityPoint, One Ropemaker Street, EC2Y 9HS
London (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
11 August 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PREPARING MALTTOL ENRICHED PRODUCTS

(57) Abstract: The current invention relates to a process for preparing maltitol enriched products and said process is chromatograph-
ically fractionating a maltose syrup followed by hydrogenating it into a liquid maltitol enriched product and optionally solidification
or crystallization of maltitol. Liquid, solid and crystalline maltitol of different purities are obtainable by a single process.

WO 2005/014608 A3

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014608 A2

(51) International Patent Classification⁷: **C07H 15/00**

(21) International Application Number:
PCT/IT2004/007372

(22) International Filing Date: 6 July 2004 (06.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03254528.7 18 July 2003 (18.07.2003) EP

(71) Applicant (for all designated States except US):
CARGILL INCORPORATED [US/US]; 15407 McGinty
Road West, Wayzata, MN 55391 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): STOUFFS, Robert,
Henri-Marcel [BE/IT]; Via Montebello, 25, I-44100 Fer-
rara (IT). BRUSSANI, Gianfranco [IT/IT]; Via Gramsci
8, I-13058 Ponderano (IT). SACRATO, Ricardo [IT/IT];
Via Dei Marinai 12, I-45026 Lendinara (IT). CONARD,
Chad [US/US]; 5009 Co Road 39, Ft Calhoun, NE 68023
(US). SASMAN, Thomas [US/US]; 3922 N. 159th Street,
Omaha, NE 68116 (US).

(74) Agent: DERKS, Wilbert; Howrey Simon Arnold &
White, CityPoint, One Ropemaker Street, EC2Y 9HS
London (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AI., AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GI,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PREPARING MALTTITOL ENRICHED PRODUCTS

(57) Abstract: The current invention relates to a process for preparing maltitol enriched products and said process is chromatograph-
ically fractionating a maltose syrup followed by hydrogenating it into a liquid maltitol enriched product and optionally solidification
or crystallization of maltitol. Liquid, solid and crystalline maltitol of different purities are obtainable by a single process.



WO 2005/014608 A2